

What is claimed is:

1. A relay apparatus, which is connected to a first content server located on a private network and delivering various contents, relays the contents delivered by the first content server to a mobile terminal, the mobile terminal and the relay apparatus being connected to a radio network including a RAN (Radio Access Network), the relay apparatus comprising:

a table setting section which sets, in accordance with an instruction from the mobile terminal, a table including a radio connection identifier to identify a channel through which a content is sent and received between the mobile terminal and the relay apparatus and an IP address with which the content is sent and received between the relay apparatus and the first content server;

a receiving section which receives content request information from the mobile terminal; and

a transfer section which transfers the content request information to the IP address included in the content request information when, based on the content request information received by the receiving section, the radio connection identifier and the IP address included in the content request information are identified in the table set by the table setting section.

2. The relay apparatus according to claim 1, wherein

a second content server located on a wide area network and delivering the various contents is connected to the relay apparatus, and

the transfer section transfers the content request information to the second content server when, based on the content request information received by the receiving section, the IP address included in the content request information cannot be identified in the table set by the table setting section.

3. The relay apparatus according to claim 2, wherein

the relay apparatus does not charge a fee for the content when the content is delivered from the first content

server, and charges a fee for the content according to an amount of the content when the content is delivered from the second content server.

4. The relay apparatus according to claim 1, wherein  
when the radio connection identifier is set between the relay apparatus and the mobile terminal through the radio network, the relay apparatus sends the IP address of the first content server to the mobile terminal.

5. A method of controlling content delivery, in which a mobile terminal and a relay apparatus are connected to a radio network including a RAN (Radio Access Network), a first content server located on a private network and delivering various contents is connected to the relay apparatus, and the first content server delivers the contents to the mobile terminal via the relay apparatus, the method comprising:

a first step of setting, in accordance with an instruction from the mobile terminal, a table which includes a radio connection identifier to identify a channel through which a content is sent and received between the mobile terminal and the relay apparatus and an IP address with which the content is sent and received between the relay apparatus and the first content server;

a second step of receiving content request information from the mobile terminal;

a third step of transferring the content request information to the IP address included in the content request information when, based on the content request information received in the second step, the radio connection identifier and the IP address included in the content request information are identified in the table set in the first step; and

a fourth step of delivering the content made to correspond to the content request information to the mobile terminal via the relay apparatus based on the content request information transferred in the third step.

6. A content delivery system in which a mobile terminal and a relay apparatus are connected to a radio network including a RAN (Radio Access Network), a first content server located on a private network and delivering various contents is connected to the relay apparatus, and the first content server delivers the contents to the mobile terminal via the relay apparatus, wherein

the relay apparatus includes:

a table setting section which sets, in accordance with an instruction from the mobile terminal, a table including a radio connection identifier to identify a channel through which a content is sent and received between the mobile terminal and the relay apparatus and an IP address with which the content is sent and received between the relay apparatus and the first content server;

a receiving section which receives content request information from the mobile terminal; and

a transfer section which transfers the content request information to the IP address included in the content request information when, based on the content request information received by the receiving section, the radio connection identifier and the IP address included in the content request information are identified in the table set by the table setting section, and

wherein the first content server delivers the content made to correspond to the content request information to the mobile terminal via the relay apparatus based on the content request information transferred from the transfer section.